

**Notice of Allowability**

Application No.

09/228,562

Examiner

Walter F Briney III

Applicant(s)

TANIGUCHI ET AL.

Art Unit

2644

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the RCE, filed 08 July 2004.
2. ☒ The allowed claim(s) is/are 1-21.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☒ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☒ to Paper No./Mail Date 05 June 2002.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

***Allowable Subject Matter***

Claims 1-21 are allowed.

As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

In particular, replacement drawing sheets must be submitted, in order to comply with the Notice of Draftsperson's Patent Drawing Review on 05 June 2002.

The following is a statement of reasons for the indication of allowable subject matter:

It is the opinion of this examiner that the newly recited limitations of claims 1, 11, and 21 have placed all claims of the application in condition for allowance.

In particular, the applicant has reported that in a telephonic interview with the previous examiner of record, held 21 November 2003, it was determined that Kobayashi does not fairly teach or disclose the limitation, wherein "*at least one of the first LC filter circuit unit and the second LC filter circuit unit includes two resonant portions connected via a capacitor.*" See page 13 of the RCE. This is clearly true. Attention is drawn to figure 5, wherein an input (A and A') to a circuit includes two dual parallel-resonant filter comprising C8, C9, C10, C11, L6, L7, L8, L9, and L10. One of the dual parallel-resonant circuits comprises C8, C9, L6, and L7. The parallel-resonant circuit of C8 and L6 is directly connected to parallel-resonant circuit C9 and L7. Therefore, Kobayashi does not teach the limitation recited above.

This examiner further submits that neither Kato nor Lopez makes up for this deficiency. While figure 11 of Lopez depicts a filter including dual-parallel-mode circuits and a connecting capacitor, there is no suggestion or motivation to use said combining capacitor in the invention of Kobayashi. In particular, the orientation of the resonant circuits in Kobayashi and Lopez are different, and adding coupling capacitors could have unexpected or detrimental results.

In further review of the invention of Lopez, it appears that the filter disclosed therein has a strong resemblance to that of the current invention. However, the main difference is made apparent by the limitation, "*wherein said common line side of said first LC filter circuit unit is electrically and directly connected to said common side line of said second LC filter circuit unit via said common line.*" The first and second filters of figure 11 are not connected directly to each other. They share a common connection to a ground terminal, however, this suggests that they indirectly connected, as ground terminals are often spread out. In addition, even if they were considered to be *directly connected* they share no common electronic connection to each other, as signals passing through one ground terminal do not reappear at another. This appears to be different than the invention, wherein a common phase point is defined, which serves to cancel fluctuations in a differential input.

A detailed search of US class 333 -- Wave Transmission Lines and Networks, subclasses 167-178 -- was performed in addition to the above analysis, however, no new art was uncovered.

Therefore, claim 1 is allowable over the prior art of record, and claims 11, and 21, which include the limitations discussed above are also allowable. In addition, claims 2-10 and 12-20 are allowable because of their dependence on claims 1 and 11.

### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter F Briney III whose telephone number is 703-305-0347. The examiner can normally be reached on M-F 8am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W Isen can be reached on 703-305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

WFB  
10/27/04

  
**XU MEI**  
**PRIMARY EXAMINER**